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Device and Method for Estimation of an Engine Torque

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ABSTRACT:

Alternating torque  $\tilde{M}_{kv}(\varphi)$  or the mean indicated pressure  $P_{mi}$  is to be determined from the angular velocity  $\omega$  from the engine speed, for engine management, for example. Charge pressure compensation (5) must be effected in order for a usable result to be obtained. By preference sensor wheel error compensation (2) and inertial force compensation (4) are also effected. The mean indicated pressure  $P_{mi}$  is obtained from the alternating torque  $\tilde{M}_{kv}(\varphi)$  in a characteristic diagram.